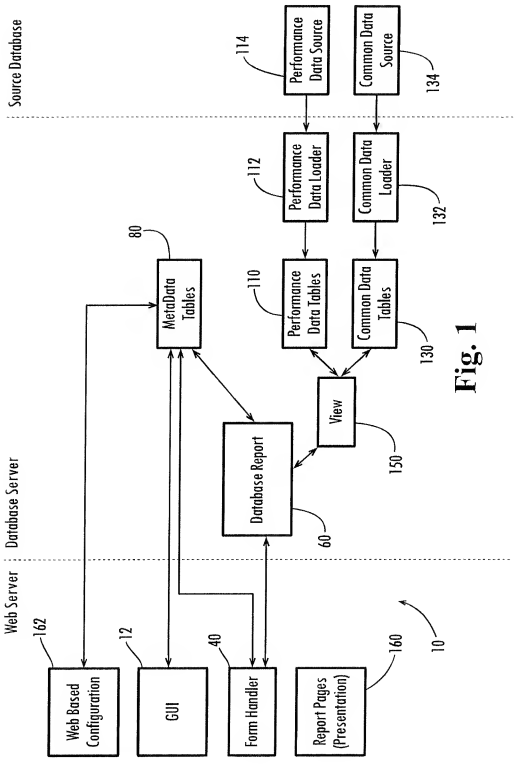
Web Server
Database Server
Source Database
Web Based Configuration
GUI
Form Handler
Report Pages (Presentation)
Database Report
MetaData Tables
Performance Data Tables
Common Data Tables
View
Performance Data Loader
Common Data Loader
Performance Data Source
Common Data Source
162
12
40
160
10
60
80
110
130
150
112
132
114
134

Fig. 1

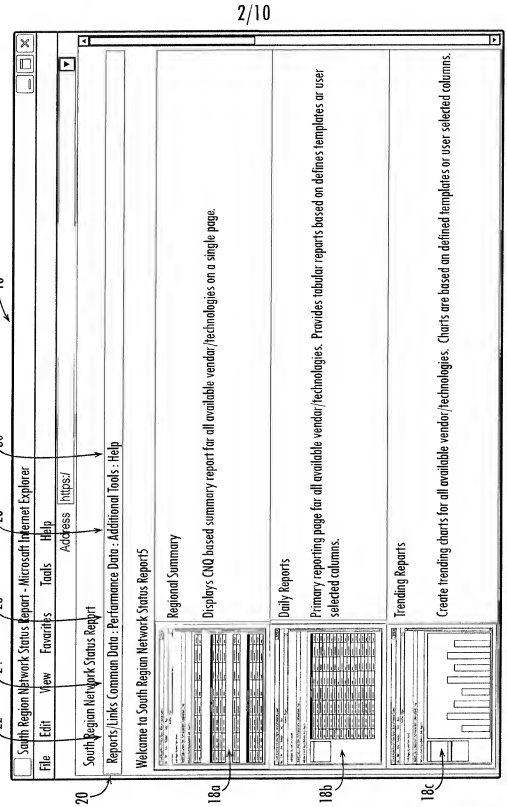
South Region Network Status Report - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address https:/
South Region Network Status Report
Reports/Links Commun Data : Performance Data : Additional Tools : Help
Welcome to South Region Network Status Report5
Regional Summary
Displays CNQ based summary report for all available vendor/technologies on a single page.
Daily Reports
Primary reporting page for all available vendor/technologies. Provides tabular reports based on defines templates or user selected columns.
Trending Reports
Create trending charts for all available vendor/technologies. Charts are based on defined templates or user selected columns.
16
18a
18b
18c
20
22
24
26
28
30

Fig. 2

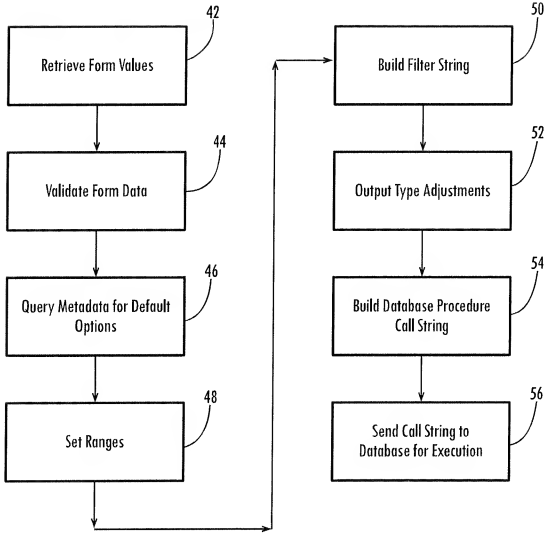
42
Retrieve Form Values
44
Validate Form Data
46
Query Metadata for Default Options
48
Set Ranges
50
Build Filter String
52
Output Type Adjustments
54
Build Database Procedure Call String
56
Send Call String to Database for Execution

Fig. 3

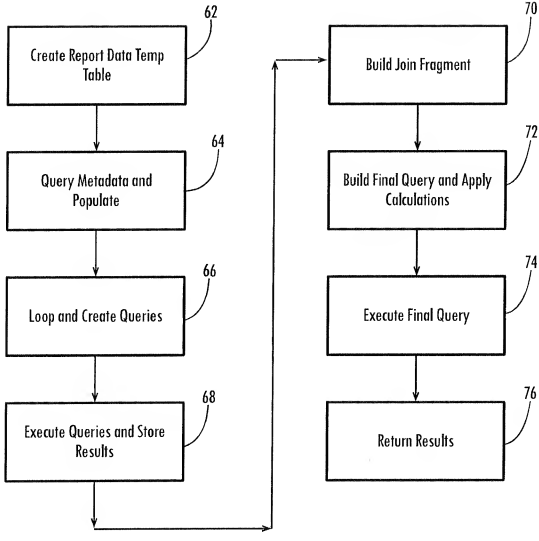
Create Report Data Temp Table
62
Query Metadata and Populate
64
Loop and Create Queries
66
Execute Queries and Store Results
68
Build Join Fragment
70
Build Final Query and Apply Calculations
72
Execute Final Query
74
Return Results
76

Fig. 4

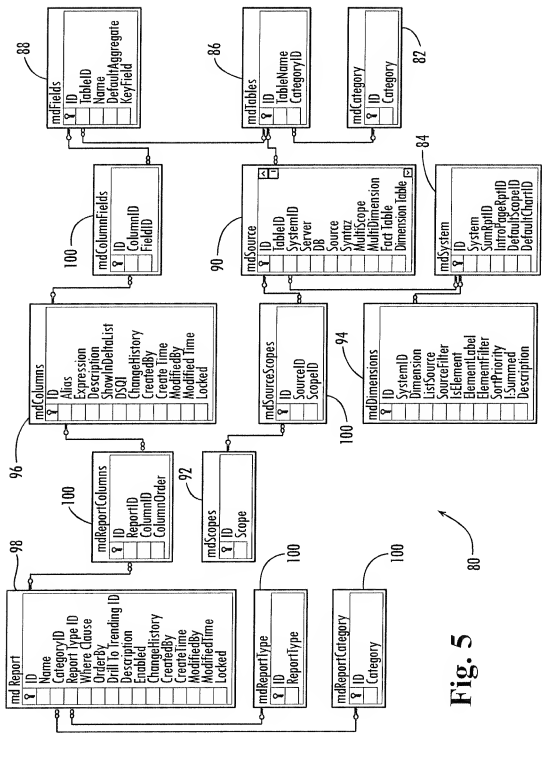
mdReport
ID
Name
CategoryID
Report Type ID
Where Clause
OrderBy
Drill To Trending ID
Description
Enabled
ChangeHistory
CreatedBy
CreateTime
ModifiedBy
ModifiedTime
Locked
mdReportType
ID
ReportType
mdReportCategory
ID
Category
mdReportColumns
ID
ReportID
ColumnID
ColumnOrder
mdScopes
ID
Scope
mdColumns
ID
Alias
Expression
Description
ShowInDefaultList
DSQI
ChangeHistory
CreatedBy
Create Time
ModifiedBy
Modified Time
Locked
mdColumnFields
ID
ColumnID
FieldID
mdFields
ID
TableID
Name
DefaultAggregate
KeyField
mdSourceScopes
ID
SourceID
ScopeID
mdSource
ID
TableID
SystemID
Server
DB
Source
Syntax
MultiScope
MultiDimension
Fact Table
Dimension Table
mdTables
ID
TableName
CategoryID
mdDimensions
SystemID
Dimension
ListSource
SourceFilter
IsElement
ElementLabel
ElementFilter
SortPriority
IsSummed
Description
mdSystem
ID
System
SystemGuID
JumpPromptID
DefaultScopeID
DefaultChartID
mdCategory
ID
Category
80
82
84
86
88
90
92
94
96
98
100

Fig. 5

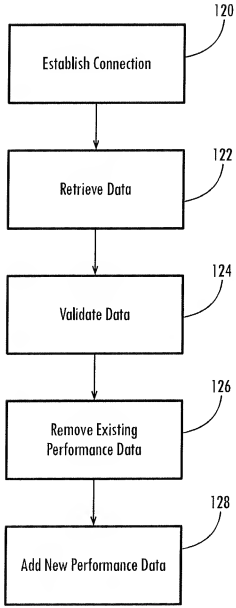
120
Establish Connection
122
Retrieve Data
124
Validate Data
126
Remove Existing Performance Data
128
Add New Performance Data

Fig. 6

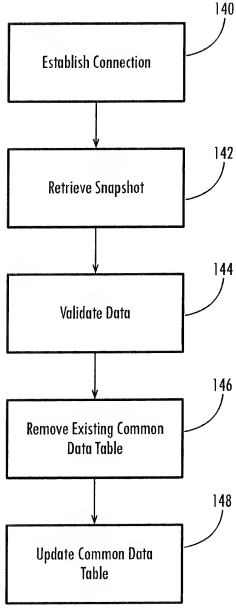
140
Establish Connection
142
Retrieve Snapshot
144
Validate Data
146
Remove Existing Common Data Table
148
Update Common Data Table

Fig. 7

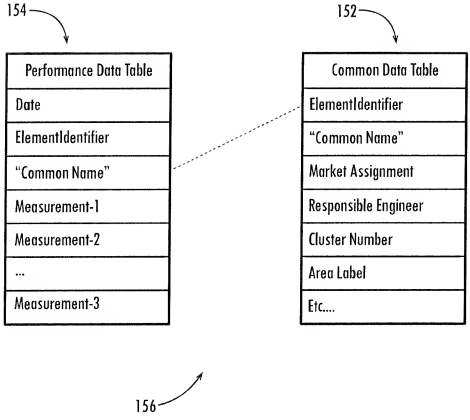
154
152
Performance Data Table
Date
ElementIdentifier
"Common Name"
Measurement-1
Measurement-2
...
Measurement-3
Common Data Table
ElementIdentifier
"Common Name"
Market Assignment
Responsible Engineer
Cluster Number
Area Label
Etc....
156

Fig. 8

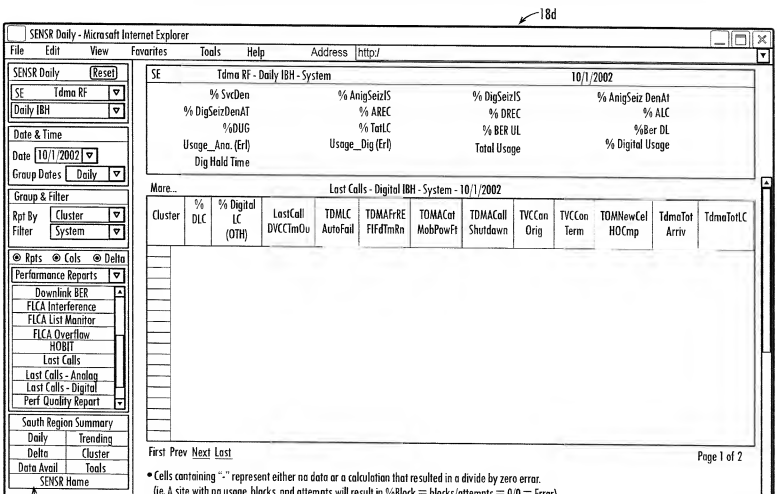

Fig. 9a

9/10

REPLACEMENT SHEET

18d
SBNSR Daily - Microsoft Internet Explorer
File Edit View Favorites Tools Help Address http://
SBNSR Daily (Reset)
SE Idma BF
Daily IBH
Date & Time
Start 6/30/2003
End 8/29/2003
Group Dates Daily
Use Days All Days
Group & Filter
Rpt By Cluster
Filter System
Where X
Data Calls
Performance Reports
Analog LC Breakdown
Bit Error Rate
CnG Service Denied by Technology
Digital LC Breakdown
Digital LC Per Erlang
Est Calls (Assign)
Est Calls (Generate)
South Region Summary
Daily Trending
Idaho Cluster
Idaho Road Calls
Erlang Usage - Daily IBH - Cluster:
Usage_Anal(Erl)
Usage_Dig (Erl)
Total Usage
Plot area
1,700.00
1,600.00
1,500.00
1,400.00
1,300.00
1,200.00
1,100.00
1,000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
7/9/2003
7/19/2003
7/29/2003
8/8/2003
8/18/2003
8/28/2003
Report Info
Data Availability
Report Query
Export Data
19

Fig. 9b